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BOROUGH



OF CREWE

ANNUAL REPORT

OF THE

Medical Officer of Health

AND THE

Chief Public Health Inspector

FOR THE YEAR 1968

D. G. CRAWSHAW, M.B., Ch.B., D.C.H., D.P.H.
Medical Officer of Health

R. E. PLATT, M.A.P.H.I., A.M.Inst.P.C.,
Chief Public Health Inspector

B O R O U G H O F C R E W E

ANNUAL REPORT


of the

MEDICAL OFFICER OF HEALTH

and the

CHIEF PUBLIC HEALTH INSPECTOR

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B O R O U G H O F C R E W E
H E A L T H A N D S T A N D A R D S C O M M I T T E E

(Membership as at 31st December, 1968)

Chairman: .

Councillor Mrs. K. Talbot

Deputy Chairman:

Alderman S.W. Green.

Members:

THE WORSHIPFUL THE MAYOR -

Alderman W. Talbot, J.P.

Alderman R. Peach

Councillor A.E. Booth

Councillor Mrs. S.A. Clarke

Councillor N. Edwards

Councillor T.G. Hamilton

Councillor H. Harrison

Councillor Mrs. A. Young.

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BOROUGH OF CREWE

MEDICAL OFFICER'S OFFICE

D.G. CRAWSHAW, M.B., Ch.B., D.C.H., D.P.H., Medical Officer of Health
(part-time with Cheshire C.C.)

C. BENNETT, D.M.A., Chief Clerk (part-time with Cheshire C.C.)
(1.2.4.5.7.)

MRS. J.M. COOKE, Clerk (part-time with Cheshire C.C.)

CHIEF PUBLIC HEALTH INSPECTOR'S DEPARTMENT

J. GASKELL (1.2.4.5.7.)	Chief Public Health Inspector, Inspector under the Diseases of Animals Acts (resigned 29.9.68.)
R.E. PLATT (1.2.5.)	Chief Public Health Inspector, Inspector under the Diseases of Animals Acts (commenced 30.9.68.)
F.J. ROGERS (1.2.4.)	Deputy Chief Public Health Inspector (commenced 4.11.68.)
D.W. COOKE (1.2.4.5.)	Public Health Inspector
R.D. COLLIER (1.2.4.)	Public Health Inspector
E.H. PEET (1.2.)	Public Health Inspector
F.E. WESTON (3)	Public Health Inspector (resigned November, 1968)
T.E. HOLLINS (3)	Public Health Inspector (commenced 2.12.68.)
D.S. WHITE (6)	Technical Assistant
P.H. WILLIAMS	Pupil Public Health Inspector (resigned 30.9.68.)
I. CLARKE	Pupil Public Health Inspector (commenced 1.10.68.)
J.C.M. POTTER	Pupil Public Health Inspector (commenced 1.10.68.)
R.J. BLEASE	Chief Administrative Assistant
G.E. LATHAM	Clerk
MRS. J. ADAMS	Shorthand Typist
MISS J. WARBURTON	Shorthand Typist

1. Public Health Inspector's Certificate (Royal Society of Health and Public Health Inspector's Examination Joint Board).
2. Meat and Food Inspector's Certificate of the Royal Society of Health.
3. Diploma of Public Health Inspector's Education Board for appointment as Public Health Inspector.
4. Smoke Inspector's Certificate of the Royal Society of Health.
5. Testamur of the Institute of Public Cleansing.
6. Full Technological Certificate in Building.
7. Certificate in Sanitary Science as applied to Buildings and Public Works of the Royal Society of Health.

To the Mayor, Aldermen and

Councillors of the Borough of Crewe.

September, 1969.

I have the honour to present to you my report on the health of the Borough of Crewe for the year 1968.

VITAL STATISTICS

During 1968, 22 infants died before reaching the age of 1 year, and the infantile mortality rate of 25.37 per 1,000 live births is high. The table of comparative statistics, page 9, shows how this particular rate has fluctuated so widely during the past 10 years. 11 of these babies died during the 2 to 12 month period, at ages at which deaths are generally regarded as being more easily prevented than in the first month of life. The total number of births (867) shows a further small fall on the 1967 figure (875). The illegitimate live birth rate (per cent of total live births) is 9.8% being an increase on the high figure for 1967 (8.8%), and the highest figure recorded. The total number of illegitimate births (85) is 5 less than the 1964 figure which gave a rate of 9%. The corrected live birth rate (16.76) is again lower than the national figure for England and Wales (16.9).

The total number of deaths, 637, is again higher than the ten year average figure, approximately 600 which is comparable, as our population remains static. The corrected death rate, 14.27 is high compared with the national figure for England and Wales, 11.9. The table on pages 10 to 14 shows the causes and ages. 235 occurred to persons aged 75 years or over, 22 were attributed to accidents, 5 being motor vehicle accidents and 3 persons committed suicide. Of the 122 deaths attributed to cancer, 31 were primary lung cancers. It is interesting to reflect that an individual can reduce the likelihood of his or her death from cancer by approximately one quarter by not smoking cigarettes.

INFECTIOUS DISEASES

Measles notifications, 426, is a high figure. The introduction of immunisation, now well under way, should show improvements in future years. Infective jaundice is now notifiable and 9 persons were reported. No case of poliomyelitis diphtheria, or meningococcal infection was notified.

The Regional Hospital Board Mass Radiography Unit 13C visited during 1968. Members have received a copy of the Director's report which has been included in the Annual Report so as to be easily available for record purposes.

I remain,

Your obedient servant,

D.G. CRAWSHAW.

STATISTICS AND SOCIAL CONDITIONS OF THE AREA

GENERAL STATISTICS

Area (Census 1961)	4,386 acres
Population (Census 1961)	53,394
Registrar General's Estimated Population 1968	52,220
Number of Inhabited Houses (1st April, 1968)	17,632
Rateable Value (1st April, 1968)	£2,001,347
Sum Represented by Penny Rate	£7,912.0. 1d.

VITAL STATISTICS FOR THE YEAR 1968

MOTHERS & INFANTS

LIVE BIRTHS

<u>Number</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	418	364	782
Illegitimate	47	38	85
	<u>465</u>	<u>402</u>	<u>867</u>

Rate per 1,000 population 16.6
 Illegitimate live births (per cent. of total live births) 9.8%

STILLBIRTHS

<u>Number</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	8	8	16
Illegitimate	1	1	2
	<u>9</u>	<u>9</u>	<u>18</u>

Rate per 1,000 total live and stillbirths 20.33
 Total live and stillbirths

<u>Males</u>	<u>Females</u>	<u>Total</u>
474	411	885

Infant Deaths (deaths under one year)

<u>Males</u>	<u>Females</u>	<u>Total</u>
11	11	22

INFANT MORTALITY RATES

Total infant deaths per 1,000 total live births	...	...	25.37
Legitimate infant deaths per 1,000 legitimate live births			23.01
Illegitimate infant deaths per 1,000 illegitimate live births			47.05

NEO-NATAL MORTALITY RATE

(Deaths under 4 weeks per 1,000 total live births)	...	11.5
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EARLY NEO-NATAL MORTALITY RATE

(Deaths under 1 week per 1,000 total live births)	...	10.4
---	-----	------

PERINATAL MORTALITY RATE

(Stillbirths and deaths under 1 week combined per 1,000 total live and stillbirths)	30.5
---	-----	-----	-----	-----	------

MATERNAL MORTALITY (including abortion)

Number of deaths	nil
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DEATHS - GENERAL

REGISTERED DEATHS

<u>Males</u>	<u>Females</u>	<u>Total</u>
341	296	637

DEATH RATE

(Deaths per 1,000 population)	12.2
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BIRTH RATES, DEATH RATES, ANALYSIS OF MORTALITY

MATERNAL MORTALITY AND CASE RATES FOR CERTAIN

INFECTIOUS DISEASES IN THE YEAR 1968

(Provisional figures based on weekly and quarterly returns)

								CREWE
								Rates per 1,000 of the population
BIRTHS -								
Live	...	...	...	...	...	...	...	16.6
Still	...	...	...	...	...	...	...	0.34
DEATHS -								
All causes	...	...	...	...	...	...	...	12.2
Typhoid & Paratyphoid Fevers	...	...	...	...	...	...	...	-
Whooping Cough	...	...	...	...	...	...	...	-
Diphtheria	...	...	...	...	...	...	...	-
Tuberculosis (all forms)	...	...	...	...	...	...	...	0.038
Influenza	...	...	...	...	...	...	...	0.091
Smallpox	...	...	...	...	...	...	...	-
Acute Poliomyelitis, including	...	...	...	...	...	...	...	-
Pneumonia (including pneumonia of Newborn)	...	...	...	...	...	...	...	0.53
								Rates per 1,000 Live Births
Under 1 year of age (all causes)	...	...	...	...	...	...	...	25.3
Gastro-Enteritis, Colitis (except ulcerative) and Diarrhoea under 1 year of age	...	...	...	...	...	...	...	1.15
								Rates per 1,000 of the population
NOTIFICATIONS (corrected) -								
Typhoid Fever	...	...	...	...	...	...	...	-
Paratyphoid Fever	...	...	...	...	...	...	...	-
Meningococcal Infection	...	...	...	...	...	...	...	-
Scarlet Fever	...	...	...	...	...	...	...	0.46
Whooping Cough	...	...	...	...	...	...	...	0.61
Diphtheria	...	...	...	...	...	...	...	-
Erysipelas	...	...	...	...	...	...	...	-
Smallpox	...	...	...	...	...	...	...	-
Measles	...	...	...	...	...	...	...	8.1
Acute Poliomyelitis including	...	...	...	...	...	...	...
Paralytic	...	...	...	...	...	...	...	-
Non-Paralytic	...	...	...	...	...	...	...	-
Food Poisoning	...	...	...	...	...	...	...	-
Puerperal Pyrexia	...	...	...	...	...	...	...	0.019
Ophthalmia Neonatorum	...	...	...	...	...	...	...	-
Dysentery	...	...	...	...	...	...	...	-
Infective Jaundice	...	...	...	...	...	...	...	0.17

A dash (-) signifies that there were no deaths or notifications

BIRTH RATES, DEATH RATES, ANALYSIS OF MORTALITY
MATERNAL MORTALITY, AND CASE RATES FOR CERTAIN
INFECTIOUS DISEASES
IN THE YEAR 1968

(continued)

Comparison of certain rates with those for England and Wales.

COMPARABILITY FACTORS

	<u>Births</u>	<u>Deaths</u>		
	1.01	1.17		
			<u>Crewe</u>	<u>England and Wales</u>
Per 1,000 Home Population				
Live Births		16.6		
Live Births (corrected by comparability factor)		16.76		16.9
Deaths (all causes) actual		12.2		
Deaths (all causes)(corrected by comparability factor)		14.27		11.9
Per 1,000 total (Live and Still) Births				
Stillbirths		20.33		14.0
Per 1,000 Live Births				
Deaths under 1 year of age		25.3		18.0

COMPARATIVE STATISTICS 1958 - 1968

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Year	Esti- mated Popu- lation	Live Births		Stillbirths		Deaths		Infant Deaths				Maternal Deaths			
		No.	Rate per 1,000 Esti- mated Popu- lation	No.	Rate per 1,000 Total Live & Still- births	No.	Rate Per 1,000 Esti- mated Popu- lation	Under 4 weeks	4 wks to 12 mths	Total	Rate per 1,000 Live Births	Se- pis	Other	Total	Rate per 1,000 Total Births
1958	51,370	791	15.4	29	35.3	616	12.05	11	8	19	24.02	-	2	2	2.4
1959	51,200	841	16.4	17	19.8	599	11.7	11	4	15	17.8	-	1	1	1.2
1960	51,320	910	17.7	28	29.8	540	10.5	16	3	19	20.9	-	-	-	-
1961	53,730	919	17.1	21	22.3	702	13.1	12	5	17	18.5	-	-	-	-
1962	53,580	958	17.8	15	15.4	655	12.22	8	21	29	30.27	-	1	1	1.02
1963	53,180	995	18.7	26	19.2	621	11.67	17	10	27	27.13	-	1	1	0.979
1964	52,950	1023	19.3	24	22.9	616	11.63	14	10	24	23.46	-	1	1	0.955
1965	52,870	975	18.4	23	23.0	657	12.43	8	8	16	16.41	-	-	-	-
1966	52,600	898	17.07	19	20.71	661	12.56	17	8	25	27.83	-	1	1	1.090
1967	52,400	875	16.7	14	16.96	635	12.1	8	4	12	13.71	-	-	-	-
1968	52,220	867	16.6	18	20.33	637	12.2	10	12	22	25.37	-	-	-	-

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1968 IN THE MUNICIPAL BOROUGH OF CREWE

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CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years									
					1-	5-	15-	25-	35-	45-	55-	65-	75+	
Enteritis & Other Diarrhoeal Diseases	M	1	-	1	-	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-	-	-	-	-	-	-
Tuberculosis of Respiratory System	M	2	-	-	-	-	-	-	1	-	1	-	-	-
	F	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Infective & Parasitic Diseases	M	1	1	-	-	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant Neoplasm - Stomach	M	8	-	-	-	-	-	-	-	1	2	1	2	4
	F	11	-	-	-	-	-	-	-	2	1	1	2	6
Malignant Neoplasm - Lung, Bronchus	M	25	-	-	-	-	-	-	-	6	9	2	6	4
	F	6	-	-	-	-	1	1	1	-	-	2	1	-
Malignant Neoplasm - Breast	M	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	14	-	-	-	-	-	1	-	3	2	4	4	-
Malignant Neoplasm - Uterus	F	7	-	-	-	-	-	-	1	3	1	2	-	-
	M	32	-	-	-	-	-	-	1	2	7	13	8	5
Other Malignant Neoplasms, Etc.	F	19	-	-	-	-	-	1	1	1	4	7	-	-
	M	1	-	-	-	-	-	-	-	-	-	-	-	-
Benign & Unspecified Neoplasms	F	1	-	-	-	-	-	-	-	-	-	-	-	-
	M	5	-	-	-	-	-	-	-	-	-	-	-	-
Diabetes Mellitus	F	4	-	-	-	-	-	-	-	-	-	-	-	-
	M	-	-	-	-	-	-	-	-	-	-	-	-	-

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1968 IN THE MUNICIPAL BOROUGH OF CREWE

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CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years								
					1-	5-	15-	25-	35-	45-	55-	65-	75+
Anaemias	M	2	-	1	-	-	-	-	-	-	-	1	-
	F	3	-	-	-	-	-	-	-	-	-	1	2
Other Diseases of Blood, Etc.	M	1	-	-	-	-	-	-	-	-	-	1	-
	F	-	-	-	-	-	-	-	-	-	-	-	-
Mental Disorders	M	-	-	-	-	-	-	-	-	-	-	-	-
	F	2	-	-	-	-	-	-	-	-	-	-	2
Other Diseases of Nervous System, Etc.	M	2	-	-	-	-	-	-	-	-	-	1	1
	F	2	-	-	-	-	-	-	-	-	2	-	-
Chronic Rheumatic Heart Disease	M	1	-	-	-	-	-	1	-	-	-	-	-
	F	-	-	-	-	-	-	-	-	-	-	-	-
Hypertensive Disease	M	1	-	-	-	-	-	-	-	-	-	1	-
	F	5	-	-	-	-	-	-	-	-	-	2	3
Ischaemic Heart Disease	M	92	-	-	-	-	-	-	4	12	27	34	15
	F	44	-	-	-	-	-	-	-	3	5	18	18
Other Forms of Heart Disease	M	8	-	-	-	-	-	-	-	-	2	2	4
	F	18	-	-	-	-	-	-	-	-	-	6	12
Cerebrovascular Disease	M	40	-	-	-	-	-	-	1	2	3	12	22
	F	61	-	-	-	-	-	-	-	3	7	20	31
Other Diseases of Circulatory System	M	7	-	-	-	-	-	1	-	1	2	3	1
	F	10	-	-	-	-	-	-	-	-	1	5	3

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1968 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years								
					1-	5-	15-	25-	35-	45-	55-	65-	75+
Influenza	M	2	-	-	-	-	-	-	-	1	-	1	-
	F	3	-	-	-	-	-	-	-	1	1	-	8
Pneumonia	M	15	-	1	1	-	-	2	-	1	2	3	8
	F	13	-	-	1	-	-	-	-	-	1	-	8
Bronchitis & Emphysema	M	27	-	1	-	-	-	-	-	-	7	12	8
	F	10	-	-	-	-	-	-	-	-	-	3	3
Asthma	M	-	-	-	-	-	-	-	-	-	-	-	-
	F	2	-	-	-	-	-	-	-	-	1	1	-
Other Diseases of Respiratory System	M	6	-	1	-	-	-	-	-	1	2	-	2
	F	3	-	2	-	-	-	-	-	1	-	-	-
Peptic Ulcer	M	3	-	-	-	-	-	-	-	-	2	1	-
	F	2	-	-	-	-	-	-	-	-	1	1	-
Intestinal Obstruction & Hernia	M	1	-	-	-	-	-	-	-	-	-	-	1
	F	2	-	-	-	-	-	-	-	-	1	-	1
Cirrhosis of Liver	M	2	-	-	-	-	-	-	-	-	1	1	-
	F	1	-	-	-	-	-	-	-	-	-	-	-
Other Diseases of Digestive System	M	4	-	-	-	-	1	-	-	-	2	4	5
	F	9	-	-	-	-	-	-	-	-	-	-	-
Nephritis & Nephrosis	M	1	-	-	-	-	-	-	-	-	1	1	-
	F	2	-	-	-	-	-	-	-	-	-	-	-

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1968 IN THE MUNICIPAL BOROUGH OF CREWE

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CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years									
					1-	5-	15-	25-	35-	45-	55-	65-	75+	
Hyperplasia of Prostate	M	3	-	-	-	-	-	-	-	-	-	-	-	3
Other Diseases, Genito-Urinary System	M	1	-	-	-	-	-	-	-	-	-	-	1	-
	F	2	-	-	-	-	-	-	-	-	-	-	2	-
Diseases of Skin, Subcutaneous Tissue	M	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	1	-	-	-	1	-	-	-	-	-	-	-	-
Diseases of Musculo-Skeletal System	M	1	-	-	-	-	-	-	-	-	-	-	1	-
	F	1	-	-	-	-	-	-	-	-	-	-	-	1
Congenital Anomalies	M	2	-	2	-	-	-	-	-	1	-	-	-	-
	F	4	1	2	-	-	-	-	-	-	-	-	-	-
Birth Injury, Difficult Labour, etc.	M	3	3	-	-	-	-	-	-	-	-	-	-	-
	F	2	2	-	-	-	-	-	-	-	-	-	-	-
Other Causes of Perinatal Mortality	M	1	1	-	-	-	-	-	-	-	-	-	-	-
	F	2	2	-	-	-	-	-	-	-	-	-	-	-
Symptoms & Ill-Defined Conditions	M	21	-	-	-	-	-	-	-	-	-	-	1	20
	F	21	-	-	-	-	-	-	-	-	-	-	1	20
Motor Vehicle Accidents	M	4	-	-	-	3	-	-	-	-	-	-	1	-
	F	1	-	-	-	-	-	-	-	-	-	-	-	-
All Other Accidents	M	9	-	1	-	1	-	-	-	2	-	1	3	1
	F	8	-	-	-	-	-	-	-	-	-	-	-	4

Cont'd

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1968 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years								
					1-	5-	15-	25-	35-	45-	55-	65-	75+
Suicide & Self Inflicted Injuries	M	3	-	-	-	-	-	-	-	-	2	1	-
	F	-	-	-	-	-	-	-	-	-	-	-	-
	M	3	-	-	-	1	1	1	-	-	-	-	-
	F	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL ALL CAUSES	M	341	5	6	1	-	7	3	10	29	71	105	104
	F	296	5	6	2	1	1	7	4	20	35	84	131

DEATHS OF CREWE INFANTS UNDER 1 YEAR OF AGE DURING 1968

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CAUSE OF DEATH	Under 1 day	DAYS								MONTHS												
		1	2	3	4	5	6	7	14	21 to 28	1	2	3	4	5	6	7	8	9	10	11 to 12	ALL
Pneumonia	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Bronchitis	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	1	-	-	3
Gastritis, Enteritis & Diarrhoea	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Congenital Malformations	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	3
Other Infective & Parasitic Diseases	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Other Heart Disease	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	3
All Other Accidents	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
Other Defined & Ill Defined Diseases	4	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	9
TOTAL	4	4	2	1	-	-	-	-	-	-	3	2	3	1	-	-	-	-	-	1	1	22

NOTIFIED INFECTIOUS DISEASES 1968: Civilian (Corrected in cases of revised diagnosis)

	Under 1 year	1-2 years	2-3 years	3-4 years	4-5 years	5-10 years	10-15 years	15-20 years	20-25 years	25-35 years	35-45 years	45-65 years	Over 65 years	Total
Scarlet Fever	-	-	-	3	4	16	1	-	-	-	-	-	-	24
Whooping Cough	2	2	8	5	5	7	2	1	-	-	-	-	-	32
Measles	21	52	76	69	59	142	5	2	-	-	-	-	-	426
Infective Jaundice	-	-	1	1	-	3	1	1	1	-	-	1	-	9
Puerperal Pyrexia	-	-	-	-	-	-	-	-	-	1	-	-	-	1

TUBERCULOSIS

Particulars of New Cases of Tuberculosis and

Deaths During 1968

Age Period	New Cases				Deaths			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	M	F	M	F	M	F	M	F
Under 1 year	-	-	-	-	-	-	-	-
1 year - 4 years	-	-	-	-	-	-	-	-
5 years - 9 years	-	-	-	-	-	-	-	-
10 years - 14 years	-	-	-	-	-	-	-	-
15 years - 19 years	1	-	-	-	-	-	-	-
20 years - 24 years	1	-	-	-	-	-	-	-
25 years - 34 years	-	1	-	-	-	-	-	-
35 years - 44 years	1	-	-	-	-	-	-	-
45 years - 54 years	1	-	-	-	1	-	-	-
55 years - 64 years	-	-	-	-	1	1	-	-
65+ years	-	-	-	1	2	-	-	-
Total	4	1	-	1	4	1	-	-

Particulars of New Cases and Deaths

During the Last Five Years

	New Cases		Deaths	
	Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary
1964	12	1	6	-
1965	13	-	4	-
1966	6	-	9	-
1967	4	1	3	-
1968	5	1	5	-

The following tabulated summary indicates the number of cases remaining on the register at 31st December, 1968.

	Pulmonary		Non-Pulmonary	
	Male	Female	Male	Female
No. of cases on Register of Notifications on 1st January, 1968	72	40	6	5
No. of cases notified for the first time during the year	4	1	-	1
No. of cases transferred from other districts	1	1	-	-
No. of cases restored to Register	-	-	-	-
No. of cases removed from Register during the year on account of having				
(a) Recovered	2	5	1	-
(b) Removed from district	2	2	1	1
(c) Died	4	1	-	-
(d) Diagnosis not established	-	-	-	-
(e) Lost sight of	-	-	-	-
No. of cases remaining on the Register on 31st December, 1968	69	34	4	5

Of the 5 cases listed under (c) above, one male died from tuberculosis. 4 cases died from other primary causes.

VACCINATION AND IMMUNISATION

Vaccination Against Smallpox

The number of primary vaccinations of persons under 16 years of age reported to me during the year was 346, showing an increase of 76 on the previous year.

	Age at date of vaccination								
	Months				Years			Total	
	0-3	3-6	6-9	9-12	1	2-4	5-15	Clinics	By G.P.'s
Vaccinated	19	11	8	11	196	85	16	-	346
Re-vaccinated	-	-	-	-	-	1	1	-	2

Diphtheria Immunisation

During the year notifications received from Medical Practitioners showed that 955 children were immunised against diphtheria. In addition 690 children received a boosting dose to improve their immunity.

The corresponding figures for 1967 were 793 and 432.

No case of diphtheria was notified during 1968, and it is now 18 years since a case of diphtheria has been notified in the Borough.

Diphtheria, Whooping Cough, Tetanus, Poliomyelitis and
Measles Vaccinations of Persons under 16 years of age
Completed During 1968

A. Completed Primary Courses - Number of Persons under age 16

Type of vaccine or dose	Year of birth					Others under age 16	Total	
	1968	1967	1966	1965	1961 - 64		At Clinics	By G.P's
Triple DTP	326	483	33	15	33	1	-	891
Diphtheria/ Pertussis	-	-	-	-	-	-	-	-
Diphtheria/ Tetanus	3	12	18	7	23	1	-	64
Diphtheria	-	-	-	-	-	-	-	-
Pertussis	-	-	-	-	-	-	-	-
Tetanus	-	1	-	1	9	22	-	33
Salk	-	-	-	-	-	-	-	-
Sabin	264	438	73	21	54	10	-	860
Measles	-	13	108	282	313	14	316	414

B. Reinforcing Doses - Number of persons under age 16

Type of vaccine or dose	Year of birth					Others under age 16	Total	
	1968	1967	1966	1965	1961 - 64		At Clinics	By G.P's
Triple DTP	2	103	92	13	302	20	-	532
Diphtheria/ Pertussis	-	18	31	4	90	15	-	158
Diphtheria/ Tetanus	-	-	-	-	-	-	-	-
Diphtheria	-	-	-	-	-	-	-	-
Pertussis	-	-	-	-	-	-	-	-
Tetanus	-	-	1	2	12	20	-	35
Salk	-	-	-	-	-	-	-	-
Sabin	-	24	50	8	359	32	-	473

MEDICAL EXAMINATIONS

During the year 404 persons were referred to me for medical assessment. Of these 80 were examined in conjunction with the Corporation's Superannuation and Sickness Pay Scheme. 181 were County Staff or persons seeking entry into a Training College, 49 were of persons applying for a Taxi Driver's Licence, and 94 completed statements of medical history.

MORTUARY FACILITIES

The Corporation Mortuary was closed on 1st January, 1962, and the arrangements made with the South Cheshire Hospital Management Committee have continued entirely satisfactorily. During the year the Corporation paid fees in respect of 89 bodies received at the Crewe Memorial Hospital Mortuary.

CREWE AND DISTRICT COMMITTEE FOR MORAL WELFARE WORK

The Reverend A.C. Gould has supplied the following information on the work of the Committee during 1968:-

"There are so many people who have helped us that I must first proffer our thanks; the Local Authorities, Doctors, Nurses, Health Visitors, Health Department, the Subscribers to the Association and others have all worked together for a most useful year. Especially we thank our Outdoor Worker, Miss M. Evans for her untiring help.

Miss Evans has had 116 applications for help during the year. Of these 71 were maternity cases, the other 45 being of a variety of enquiries, adoption and visits concerning family problems.

Of the 71 maternity cases, 25 mothers kept their babies, 27 babies were placed for adoption, 3 babies were taken into care, 1 baby died."

It must be borne in mind that the Committee's activities cover a larger area than the Borough of Crewe.

FOOD POISONING

21 cases of suspected food poisoning were reported during the year. However, after investigation, none were confirmed.

MANCHESTER REGIONAL HOSPITAL BOARD

Mass Radiography Unit 13C,
St. Thomas' Hospital,
STOCKPORT.

REPORT ON THE SURVEY OF CREWE

3rd September to 13th December, 1968

A further visit to Crewe was made during 1968, previous surveys having been carried out in 1960 and 1964 when visits to the village of Haslington were included. On this occasion, however, arrangements for sessions in Haslington were not made as these were carried out during the Nantwich survey in 1967.

During the visit to Crewe, the Unit operated at twelve large industrial establishments and employees of numerous smaller firms were also X-rayed at these centres.

Arrangements for the general public sessions were made at various sites throughout the town and also centrally at the Town Square where a caravan office, kindly loaned by Crewe Corporation, was utilised.

The publicity for the public sessions was arranged in conjunction with the Medical Officer of Health. Leaflets were distributed to households, announcements were published in the local press and posters were exhibited in local shops.

The results of the survey are summarised in the following tables. Table I was compiled by the General Register Office from a ten per cent sample of the record cards completed by the Unit during the survey. Whilst not being strictly accurate in detail, especially in the very small groups, the figures give a reasonably correct indication of the age and sex distribution of the examinees. The figures in the remaining tables are strictly accurate, having been obtained from the individual record cards.

TABLE I Persons Examined	15-		20-		25-		35-		45-		55-		60-		65 plus		All Ages	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
	Total																	
Factories/Offices	800	540	1110	500	2430	440	2370	550	2580	540	1020	250	870	100	30	-	11210	2920
General Public	30	160	60	220	310	610	270	680	240	560	50	210	100	260	310	190	1370	2890
	830	700	1170	720	2740	1050	2640	1230	2920	1100	1070	460	970	360	340	190	12580	5810
TABLE II Diagnosis Tuberculous Cases																		
Tuberculosis - healed							1		1								2	-
" requiring occasional clinic supervision					2	1	5	2	7	1	2		3		2		21	4
" requiring treatment or close supervision			1		1	1	1	2	4		4	1	1	1	1		13 (1.0)	5 (0.9)
TABLE III Types of Examinee found with tuberculosis requiring treatment or close supervision.																		
Factories/Offices			1		1	1	1		3		4		1		1		12	1
General Public								2	1			1		1			1	4
			1		1	1	1	2	4		4	1	1	1	1		13 (0.9)	5 (1.1)
			1		1	1	1	2	4		4	1	1	1	1		13	5

The figures shown in brackets represent the incidence rate, per thousand persons examined, of pulmonary tuberculosis requiring close supervision or treatment.

TABLE IV.	15-		20-		25-		35-		45-		55-		60-		65 plus		All Ages	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Non-tuberculous cases																		
Malignant neoplasms									3		4		2		1	1	10	1
Non-malignant neoplasms									2		1		3		1	-	7	-
Lymphadenopathies	1				1				1							-	3	-
Sarcoids																1	1	2
Acquired cardiac & vascular abnormalities																		
Pneumococcosis									4	4	2		3		3	4	13	17
Acquired abnormalities of bony thorax & soft tissue									3		1				1	-	5	-
Congenital malformation of lungs													1			-	1	1
Bacterial & virus infections																-	1	-
Bronchiectasis									7		6		1		3	2	20	22
Emphysema									1							-	4	4
Fibrosis									1		1					1	2	3
Pleural effusion									2		5		2		2	2	12	14
Metastases									1							-	1	1
Pleural thickening																-	1	1
Diaphragmatic abnormalities									1	1						1	5	6
Miscellaneous										3					1	1	2	8
									1	1	1						1	3
	1		4	1	5	4	2	3	27	9	21	-	17	-	12	3	89	109

Failed to attend for further investigation or treatment

1 1 1 3 1 2 5 3 8

COMMENTS

1. The total number of persons examined was approximately the same as in 1964 but the proportion of examinations of members of the general public increased.
2. The number of cases of pulmonary tuberculosis requiring treatment or close observation that were discovered fell to 18 compared with 36 in 1964. The discovery rate was 0.9 per 1,000 examinations compared with 1.9 in 1964. This decline is a reflection of the general decline in tuberculosis morbidity which has occurred throughout the U.K. over a period of years.
3. Eleven cases of bronchial neoplasm were found compared with twelve in 1964.
4. Numerous other abnormalities were found and referred for further investigations or treatment as in the last survey.

All the abnormal cases were referred to their own doctors, the majority for further investigation at the Chest Clinic or hospital. Thanks should be extended to all the physicians and surgeons concerned and particularly to Dr. A. Fleming and his chest team for their help and co-operation in dealing with the majority of these new cases.

In conclusion, the Unit would like to place on record its thanks to the Medical Officer of Health and his staff for their assistance during the survey, and to the Locomotive Works Manager and the Area Medical Officers for their active co-operation in all matters including the use of premises for the examination of employees from firms in the vicinity.

signed: J. RIMINGTON, M.D.,
Medical Director

A. HILL,
Organising Secretary.

ANNUAL REPORT OF
THE CHIEF PUBLIC HEALTH INSPECTOR
FOR THE YEAR 1968

Chief Public Health Inspector's
Department,
Municipal Buildings,
CREWE.

October, 1969.

To the Mayor, Aldermen and
Councillors of the Borough
of Crewe.

Mr. Mayor, Ladies and Gentlemen,

I submit herewith my annual report on the work of the Public Health Inspector's Department for the year 1968.

Constant vigilance is required to maintain satisfactory standards of care and cleanliness in the manufacture, preparation and distribution of food. This work involved 755 inspections during the year and the examination of some 462 samples.

In April 1968, the Government's White Paper 'Old Houses into New Homes' was issued, setting out proposed amendments to the legislation relating to house improvements, clearance and rents and which have been incorporated in the Housing Act, 1969. The compensation now payable to owner occupiers of unfit properties within the terms of the Act will help to ameliorate any financial hardship. Grants for improved houses have been increased and the provision made for environmental improvement, which is an important factor in social well being, is a welcome innovation for area improvement.

Work commenced on the implementation of the Council's fourth smoke control order which was confirmed during the year. It is interesting to note that since 1963 when the daily smoke meters were installed the monthly averages of the volumetric concentration of smoke in the atmosphere have reduced by 50% at the Stalbridge Road Clinic site, 42% at the Municipal Buildings and 54% at the Queens Park. These figures illustrate a considerable achievement towards a cleaner atmosphere as a result of a reduction in domestic and industrial pollution.

The department continued to co-operate with the Ministry of Technology (formerly the Department of Scientific and Industrial Research) in recording smoke and sulphur dioxide concentrations, and in this respect was fortunate in receiving the continued assistance of the staff of British Railways (Midland Region) Laboratory at Crewe.

In conclusion I wish to take the opportunity of thanking the elected representatives, the staff of the department and other officers and their staffs for their help and support.

R.E. PLATT,

Chief Public Health Inspector.

SANITARY CIRCUMSTANCES OF THE AREA

PUBLIC CLEANSING

The removal of household and trade refuse is based on a weekly collection service and with the exception of holiday periods, this frequency of collection was maintained generally throughout the Borough.

The Cleansing Department operates a Refuse Disposal Plant and has a separate Garage and Workshop.

Twelve vehicles (including two spare vehicles) are employed on the collection of household and trade refuse and nightsoil, in addition to one vehicle used in connection with refuse disposal.

Household refuse collected	...	...	...	12,432 tons
Trade refuse collected...	...	...	...	2,079 tons
				<hr/>
Total refuse collected by the Department during the year				14,511 tons

3,332 tons of shop and factory refuse were also brought to the Refuse Disposal Works for disposal, making a total of 17,843 tons of refuse dealt with during the year. 63% of the total refuse passed through the works while the remainder was disposed of by controlled tipping.

The estimated amount of nightsoil collected during the year was 156 tons.

A separate Annual Report is issued for the Public Cleansing service in the Borough.

SANITARY ACCOMMODATION

There are still a number of privy pails in the Borough, situated in the present unsewered northern area of the town.

WATER SUPPLY

The water supply to the district is provided by the Mid and South East Cheshire Water Board. The water is not plumbo-solvent and all dwelling houses are supplied direct from the mains.

Mr. Delwyn Davies, B.Sc. (Eng) M.I.C.E., M.I.W.E., A.M.B.I.M., Chief Officer of the Board has supplied the following information relating to the supply.

The water supplied to the Borough has been satisfactory both in quality and in quantity. Regular bacteriological examinations were made of the raw and treated water, all of which were satisfactory.

It contains no fluoride and is not plumbo-solvent.

A copy of a typical chemical analysis of the water delivered to Crewe from Hurleston is given below:

Source of supply to consumers	R. Dee Hurleston Works
Daily volume in million gallons	6 to 7
No. of samples and period over which they have been collected	43 in 12 months (3.1.67. - 11.12.67 inclusive)
Colour	not more than 5 Hazen
Reaction pH	from 7.4 to 8.5
Electrical conductivity at 25°	from 190 to 466 umhos
Hardness as Ca CO ₃	
Total	from 71 to 205 ppm.
Non-carbonate	from 29 to 100 ppm.
Alkalinity as Ca CO ₃	from 40 to 114 ppm.
Chlorides expressed as chlorine	from 16.0 to 35.0 ppm.
Ammoniacal nitrogen	up to 0.01 ppm.
Albuminoid nitrogen	from 0.05 to 0.18 ppm.
Nitrate nitrogen	from <0.1 to 2.7 ppm.
Oxygen absorbed from permanganate in 4 hrs. at 27°C	from 0.54 to 2.11 ppm.
Iron	from 0.01 to 0.04 ppm.
Manganese	less than 0.01 ppm.
Aluminium	from 0.01 to 0.3 ppm.
Residual chlorine	from 0.1 to 0.35 ppm.

33 samples of water taken from premises throughout the Borough were also submitted by my department for bacteriological and chemical examination and all but 1 proved satisfactory.

NUMBER OF NATURE OF COMPLAINTS

The Department received 1,740 complaints during the year from householders, shopkeepers and others relating to numerous matters, as set out in the table below.

NATURE OF COMPLAINT

Disrepair - General	...	...	...	...	...	...	141
Defective chimneys and firegrates	...	...					7
Plasterwork	...	...	...	...	...		1
Floors	...	...	...	...	...	...	4
Roofs	...	...	...	...	...	...	29
Eaves, gutters and spoutings	...	...	...	...	...	...	27
Burst water pipes	...	...	...	...	...	...	13
Dampness	...	...	...	...	...	...	27
Defective water closets	...	...	...	...	...	...	73
Choked drains	...	...	...	...	...	...	392
Flooding	...	...	...	...	...	...	19
Yards and passages	...	...	...	...	...	...	18
Accumulations	...	...	...	...	...	...	35
Dirty premises	...	...	...	...	...	...	15
Vermin	...	...	...	...	...	...	25
Beetles and cockroaches	...	...	...	...	...	...	34
Ants	...	...	...	...	...	...	94
Rats	...	...	...	...	...	...	413
Mice	...	...	...	...	...	...	93
Pigeons	...	...	...	...	...	...	7
Foul and obnoxious odours	...	...	...	...	...	...	37
Smoke nuisances	...	...	...	...	...	...	16
Water supply	...	...	...	...	...	...	43
Abandoned cars	...	...	...	...	...	...	14
Miscellaneous	...	...	...	...	...	...	163

1,740

INSPECTIONS

Nature of inspections made	Number	Number of Notices served		Result of Notices served		Pro-se-cu-tions
		Infor-mal	Stat-utory	Com-plied with	Remain-ing in hand	
Dwellinghouses (P.H. Act)	527	243	63	247	59	-
Dwellinghouses (Hsg. Act)	27	-	-	-	-	-
Rapid Housing Survey	5574	-	-	-	-	-
Improvement Grants	654	-	-	-	-	-
Rent Act Certificates	23	-	-	-	-	-
Back to back houses	-	-	-	-	-	-
Verminous Houses	77	-	-	-	-	-
Tents, vans and sheds	63	2	-	2	-	-
Yards and passages	77	-	-	-	-	-
Drains and sewers	1860	-	710	710	-	-
Ditches and watercourses	83	1	-	1	-	-
Offensive accumulations	88	-	-	-	-	-
Keeping of animals	37	-	-	-	-	-
Offensive trades	70	-	-	-	-	-
Places where food is prepared or sold	755	18	-	14	4	-
Factories -						
with mechanical power	35	2	-	2	-	-
with no mechanical power	3	-	-	-	-	-
Workplaces	7	-	-	-	-	-
Outworkers	-	-	-	-	-	-
Common Lodging Houses	-	-	-	-	-	-
Shops under Shops Act	32	-	-	-	-	2
Offices, Shops and Railway Premises Act	210	53	-	38	15	-
Clean Air	2068	2	-	2	-	-
Infectious Diseases - (enquiries and revisits)	49	-	-	-	-	-
Houses re. overcrowding	30	-	-	-	-	-
Milk samples (bact. exam)	112	-	-	-	-	-
Ice cream samples	40	-	-	-	-	-
Water supply and samples	196	-	-	-	-	-
Food and Drugs (including samples)	349	-	-	-	-	8
Applicants for Corporation houses	94	-	-	-	-	-
Rodent control	182	-	-	-	-	-
Miscellaneous	1295	-	-	-	-	3
Re-inspections	1641	-	-	-	-	-
TOTALS	16258	321	773	1016	78	13

INFECTIOUS DISEASE AND DISINFECTION

Number of premises visited where a
notifiable disease has occurred 22

Number of Library Books disinfected -

(a) from Public Library 18

(b) from Private Libraries - ... 18

DISINFESTATION

The following table shows the number of premises treated during 1968.

	Number found to be infested		Number of Premises Disinfested
	Premises	Rooms	
Council Houses	5	23	5
Other Houses	5	11	5
Cases confirmed after complaint of infestation	11	-	-
Cases found by Public Health Inspectors	2	-	-
Houses disinfested by Corporation	-	-	10
Houses disinfested by Contractors	-	-	-

The work of disinfestation was carried out by the use of D.D.T. and patent fumigant solutions.

In addition to the premises listed above, 117 houses were treated for infestations of beetles, ants, etc.

SWIMMING BATHS

The only Public Swimming Baths in the Borough are owned by the Corporation and contain two swimming pools, slipper and private wash baths and various other amenities.

During the year, 49 samples of bath water were submitted for bacteriological and chemical examination and 6 samples were unsatisfactory, but subsequent samples proved satisfactory.

OFFENSIVE TRADES

The following offensive trades are carried on in the Borough.

Rag and Bone Dealers	...	...	...	2
Gut Scrapers	...	...	...	1
Bone Boiler and Fat Extractor...	...	...	...	1

In addition to the above, 31 persons are registered under the Scrap Metal Dealers Act 1964.

RAG FLOCK

Number of licensed premises used for the manufacture of, or storage of Rag Flock	...	...	...	-
Number of registered premises where filling materials are used	...	...	...	1

COMMON LODGING HOUSES

There are no common Lodging Houses in the Borough.

HOUSING STATISTICS

Number of New Houses erected during the year:

(1)	By the Local Authority	...	...	...	...	145
(2)	By other Authorities	...	...	...	...	Nil
(3)	By other bodies or persons	...	...	...	...	45

1. Inspection of Dwelling houses during the year:

(1)	(a)	Total number of houses inspected for housing defects (under Public Health Act or Housing Act) -				
	(i)	On General Inspection	....	...	243	
	(ii)	Slum Clearance	...	...	10	
		Total	...	...	253	
	(b)	Number of inspections made for the purpose -				
	(i)	General Inspection	...	...	527	
	(ii)	Slum Clearance	...	...	27	
		Total	...	...	554	
(2)	(a)	Number of dwelling houses (included under the sub-heading (1) above) which were inspected and recorded under the Housing Consolidation Regulations, 1925 -				
	(i)	General Inspection	...	...	10	
	(ii)	Slum Clearance	...	...	Nil	
		Total	...	...	10	
	(b)	Number of inspections made for the purpose -				
	(i)	General Inspection	...	...	27	
	(ii)	Slum Clearance	...	...	Nil	
		Total	...	...	27	
(3)		Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for habitation -				
	(i)	General Inspection	...	...	10	
	(ii)	Slum Clearance	...	...	Nil	
		Total	...	...	10	

Housing Statistics, cont.

(4) Number of dwelling houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation		243
2. <u>Remedy of Defects during the year without service of Formal Notices</u>		
Number of defective dwelling houses rendered fit in consequence of informal action by the Local Authority or their officers		194
3. <u>Action under Statutory Powers during the Year</u>		
(a) Proceedings under Section 9 and 10 of the Housing Act 1957 -		
(1) Number of dwelling houses in respect of which notices were served requiring repairs		Nil
(2) Number of dwelling houses which were rendered fit after service of formal notices -		
(a) By owners		Nil
(b) By Local Authority in default of owners		Nil
(b) Proceedings under Public Health Acts -		
(1) Number of dwelling houses in respect of which notices were served requiring defects to be remedied		63
(2) Number of dwelling houses in which defects were remedied after service of formal notices -		
(a) By owners		53
(b) By Local Authority in default of owners		4
(c) Proceedings under Sections 16 and 17 of the Housing Act, 1957 -		
(1) Number of dwelling houses in respect of which demolition orders were made		2
(2) Number of dwelling houses demolished in pursuance of demolition orders... ..		3

Housing Statistics, cont.

3.	(c)	(3)	Number of undertakings to carry out works in lieu of demolition accepted by the Council	Nil
		(4)	Number of dwelling houses in respect of which closing orders were made	2
		(5)	Number of dwelling houses in respect of which Closing Orders were determined under Section 27 of the Housing Act 1957	1

4. Housing Act 1957 - Part IV - Overcrowding

(a)	(1)	Number of dwellings overcrowded at end of year... ..	2
	(2)	Number of families dwelling therein... ..	2
	(3)	Number of persons dwelling therein	20
(b)		Number of new cases of overcrowding reported during the year	-
(c)	(1)	Number of cases of overcrowding relieved during the year	-
	(2)	Number of persons concerned in such cases	-
(d)		Particulars of any cases in which dwelling houses have again become overcrowded after the local authority have taken steps for the abatement of overcrowding	-

HOUSING CLEARANCE PROGRAMME

The following table shows the progress made since 1955 to the end of the year with the Slum Clearance Programmes

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/68	No. of properties demolished to 31/12/68
	'Pink'	'Grey'				
1. <u>CLEARANCE AREAS:</u>						
West Ward No. 2 (Naylor Street) Compulsory Purchase Order 1956	87	-	5/6/56	5/4/57	79	87
West Ward No. 3 (Stafford Street) Clearance Order 1957	8	-	5/6/56	19/6/57	7	8
Central Ward No. 4 (Foundry Street) Clearance Order 1957	15	-	4/6/57	11/3/58	13	15
North Ward No. 8 (Earle Street) Clearance Order 1957	7	-	4/6/57	19/11/57	7	7
North Ward No. 9 (Martin Street) Clearance Order 1957	15	-	13/8/57	8/7/58	13	15
South Ward No. 2 (Railway Street) Clearance Order 1957	18	-	13/8/57	22/9/58	18	18
West Ward No. 4 (Stafford Street and Henshaw Street) Clearance Order 1958	10	-	4/6/58	9/7/59	10	10
South Ward No. 3 (Mill Street) Clearance Order 1958	6	-	12/8/58	8/5/59	4	6
c/f	166	-	-	-	151	166

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/68	No. of properties demolished to 31/12/68
	'Pink'	'Grey'				
b/f						
Central Ward No. 5 (Lockitt Street) Clearance Order 1958	166	-	-	-	151	166
North Ward No. 10 (Davenport Street) Clearance Order 1958	15	-	12/8/58	19/5/59	14	15
North Ward No. 11 (Broad Street) Clearance Order 1958	14	-	12/8/58	8/4/59	13	14
North Ward No. 12 (Broughton Road) Clearance Order 1958	12	-	12/8/58	14/4/59	12	12
North Ward No. 13 (Sydney Road) Clearance Order 1958	3	-	12/8/58	8/4/59	3	3
West Ward No. 5 (Alexandra Street) Compulsory Purchase Order 1959	2	-	7/10/58	8/4/59	3	2
West Ward No. 6 (Orchard Place) Clearance Order 1959	83	2	7/4/59	12/9/60	85	85
Central Ward No. 6 (Liverpool Street/Forge Street) Compulsory Purchase Order 1961	20	-	2/6/59	21/7/60	19	20
Central Ward No. 7 (Bank Street/Lockitt Street) Compulsory Purchase Order 1961	186	3	12/4/60	5/10/61	171	189
	45	-	4/8/61	5/4/62	39	45
c/f	546	5	-	-	510	551

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/68	No. of properties demolished to 31/12/68
	'Pink'	'Grey'				
b/f						
South Ward No. 4 (Mill Street) Compulsory Purchase Order 1962	546	5	-	-	510	551
Central Ward No. 10 (Chester Street West) Clearance Order 1962	2	-	10/4/62	30/10/62	2	2
Central Ward No. 11 (John Street) Clearance Order 1962	2	-	10/4/62	2/11/62	2	2
West Central Ward No. 1 (Peel Street) Clearance Order 1962	2	-	10/4/62	4/1/63	2	2
West Central Ward No. 2 (Dale Street) Clearance Order 1962	8	-	10/4/62	17/1/63	7	8
West Central Ward No. 3 (West Street/Stafford Street) Compulsory Purchase Order 1962	6	-	10/4/62	2/11/62	6	6
North East Ward No. 1 (Chapel Lane) Clearance Order 1962	64	8	10/4/62	9/4/63	55	71
Central Ward No. 12 (Oakley Street/Beech Street) Compulsory Purchase Order 1963	10	-	10/4/62	18/10/62	7	10
Central Ward No. 15 (Oakley Street/Beech Street) Clearance Order 1963	59	4	9/4/63	12/5/64	50	58
	19	-	9/4/63	12/5/64	14	19
c/f	718	17	-	-	655	729

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/68	No. of properties demolished to 31/12/68
	'Pink'	'Grey'				
b/f						
West Ward No. 7 (Collins Street) Clearance Order 1963	718	17	-	-	655	729
South East Ward No. 1 (Bridge Street) Compulsory Purchase Order 1963	25	-	12/2/63	8/11/63	24	25
West Central Ward No. 5 (Derby Street/Grosvenor Street) Compulsory Purchase Order 1963	27	1	12/3/63	14/1/64	24	28
Borough of Crewe No. 14 (Mill Street/Station Street) Compulsory Purchase Order 1965	54	10	12/11/63	12/1/65	52	64
Borough of Crewe No. 52 (Broom Street/Jackson Street) Clearance Order 1965	210	40	12/1/65	2/12/66	172	226
Borough of Crewe No. 53 (Underwood Lane) Clearance Order 1965	68	-	9/11/65	4/1/67	50	-
Borough of Crewe No. 54 (Samuel Street) Clearance Order 1965	6	-	9/11/65	4/1/67	3	-
Borough of Crewe No. 55 (Samuel Street) Clearance Order 1965	6	-	9/11/65	14/9/67	3	-
	8	-	9/11/65	14/9/67	5	8
c/f	1122	68	-	-	988	1080

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/68	No. of properties demolished to 31/12/68
	'Pink'	'Grey'				
b/f	1122	68	-	-	988	1080
Borough of Crewe No. 56 (Barnfield) Compulsory Purchase Order 1966	25	1	9/11/65	4/1/67	12	-
Borough of Crewe No. 57 (Stanley Street) Clearance Order 1965	2	-	9/11/65	4/1/67	1	2
Borough of Crewe No. 58 (Camden Street) Clearance Order 1965	5	-	9/11/65	14/9/67	4	-
Borough of Crewe No. 59 (Thomas Street) Clearance Order 1965	4	-	9/11/65	14/9/67	4	4
Borough of Crewe No. 60 (William Street) Clearance Order 1965	15	-	9/11/65	14/9/67	14	15
Borough of Crewe No. 61 (William Street) Clearance Order 1965	26	-	9/11/65	14/9/67	26	22
Borough of Crewe No. 62 (North Street) Clearance Order 1965	2	-	9/11/65	14/9/67	-	-
Borough of Crewe No. 63 (Station Street) Clearance Order 1966	2	-	8/2/66	2/12/66	1	2
Borough of Crewe No. 64 (Mill Street) Clearance Order 1967	8	-	3/2/65	23/10/67	5	-
c/f	1211	69	-	-	1055	1125

HOUSING CLEARANCE PROGRAMME, Cont.

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Description of Property	No. of Properties in Area		Date of Representation Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/68	No. of properties demolished to 31/12/68
	'Pink'	'Grey'				
b/f Borough of Crewe No. 16 (Donkinson's Oak) Compulsory Purchase Order 1967 Borough of Crewe No. 17 (Albert Street) Compulsory Purchase Order 1967 Borough of Crewe No. 18 (Flag Lane) Compulsory Purchase Order, 1967 Borough of Crewe No. 19 (John Street/Chetwode Street) Compulsory Purchase Order 1968	1211	69	-	-	1055	1125
	14	-	8/8/67	30/5/68	2	-
	28	3	7/11/67	16/8/68	2	-
	3	-	7/11/67	24/4/68	2	-
	135	43	6/12/67	-	-	-
2. AREAS DEALT WITH INFORMALLY WITH THE APPROVAL OF THE MINISTRY OF HOUSING AND LOCAL GOVERNMENT	67	-	19/4/56	9/7/57	65	67
Park Place						
3. HOUSES BELONGING TO THE CORPORATION AND DEMOLISHED WITH APPROVAL OF THE MINISTRY OF HOUSING AND LOCAL GOVERNMENT	6	-	-	-	3	6
During 1954	3	-	-	-	2	3
During 1956	4	-	-	-	4	4
During 1958	3	-	-	-	2	3
During 1959						
c/f	1474	115	-	-	1137	1208

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/68	No. of properties demolished to 31/12/68
	'Pink'	'Grey'				
3. HOUSES BELONGING TO THE CORPORATION AND DEMOLISHED WITH APPROVAL OF THE MINISTRY OF HOUSING AND LOCAL GOVERNMENT Cont. b/f During 1960 During 1961 During 1964 During 1967 During 1968	1474	115	-	-	1137	1208
	4	-	-	-	3	3
	1	-	-	-	1	1
	3	-	-	-	1	3
	1	-	-	-	-	-
4. HOUSES DEALT WITH BY INDIVIDUAL DEMOLITION OR CLOSING (a) Demolition Orders: During 1955 During 1956 During 1957 During 1958 During 1959 During 1960 During 1961 During 1963 During 1964 During 1965 During 1966 During 1967 During 1968	1	-	-	-	1	1
	4	-	-	-	3	4
	9	-	-	-	6	9
	11	-	-	-	9	11
	14	-	-	-	12	14
	3	-	-	-	2	3
	1	-	-	-	-	1
	5	-	-	-	4	5
	2	-	-	-	2	2
	1	-	-	-	-	1
	3	-	-	-	2	3
	8	-	-	-	6	8
	2	-	-	-	2	2
c/f	1547	115	-	-	1191	1269

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	No. of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	No. of families rehoused 3/11/55 - 31/12/68	No. of properties demolished to 31/12/68
	'Pink'	'Grey'				
4. HOUSES DEALT WITH BY INDIVIDUAL <u>DEMOLITION OR CLOSING, Cont.</u> (b) <u>Closing Orders:</u> During 1959 During 1960 During 1962 During 1963 During 1964 During 1965 During 1966 During 1967 During 1968	1547	115	-	-	1191	1269
	1	-	-	-	1	-
	4	-	-	-	4	2
	3	-	-	-	3	-
	2	-	-	-	2	-
	1	-	-	-	1	-
	2	-	-	-	3	-
	3	-	-	-	3	-
	2	-	-	-	2	-
	2	-	-	-	-	-
	1567	115	-	-	1210	1271

IMPROVEMENT GRANTS

1.	Number of applications received to 31st December, 1967	...	...	501
	Number of applications received during the year	...	...	50
	Total applications received to 31st December, 1968	...	...	551
2.	Number of applications approved to 31st December 1967	...	...	499
	Number of applications approved during the year	...	...	50
	Total applications approved to 31st December 1968	...	...	549
3.	Number of applications withdrawn to 31st December 1967	...	...	21
	Number of applications withdrawn during the year	...	...	2
	Total applications withdrawn to 31st December 1968	...	...	23
4.	Number of cases where work was completed by 31st December 1967	...	...	454
	Number of cases where work was completed during the year	...	...	52
	Total number of cases where work was completed by 31st December 1968	...	...	506
5.	Expenditure ranking for grant approved to 31st December 1967	...	...	£77,278 5 4d
	Expenditure ranking for grant approved during the year...	...	...	8,548 4 9d
	Total expenditure ranking for grant approved to 31st December 1968	...	...	£85,826 10 1d
6.	Expenditure on works and repairs not ranking for grant in cases approved to 31st December 1967	...	...	£28,509 17 6d
	Expenditure on works and repairs not ranking for grant in cases approved during the year...	...	...	3,074 6 9d
	Total expenditure on works and repairs not ranking for grant in cases approved to 31st December 1968	...	...	£31,584 4 3d
7.	Average grant per house	...	...	£78 0 4d
8.	Number of grants repaid to 31st December 1968	...	...	28
	Total amount of grant repaid	...	...	£1,399 9 6d

NOTE: The above expenditure figures include the figures in respect of the applications approved but later withdrawn or repaid.

CERTIFICATES OF DISREPAIR

Rent Act 1957

Part I - Applications for Certificates of Disrepair

Number of applications for certificates	...	...	...	...	6
Number of decisions not to issue certificates	...	...	...		NIL
Number of decisions to issue certificates -					
(a) in respect of some but not all defects	...	...			5
(b) in respect of all defects	...	...	...	...	NIL
Number of undertakings given by landlords under paragraph 5 of the first schedule	...	...	...	...	NIL
Number of undertakings refused by Local Authority under proviso to paragraph 5 of the first schedule			...	...	NIL
Number of certificates issued	...	...	...	...	5

Part II - Applications for Cancellations of Certificates

Number of applications by landlords to Local Authority for cancellation of certificates	...	...	...		1
Number of objections by tenants to cancellation of certificates	...	...	...	...	NIL
Number of decisions by Local Authority to cancel in spite of tenant's objections	...	...	...	...	NIL
Number of certificates cancelled by Local Authority	...	...			NIL

FACTORIES ACT 1961

1. INSPECTIONS for purposes of provisions as to health (including inspections made by Public Health Inspectors).

Particulars	Number on Register	Inspection	Number of	
			Written Notices	Occupiers Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities	6	-	-	-
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	181	-	2	-
(iii) Other premises in which Section 7 is enforced by the Local Authority (excluding outworkers premises)	6	-	-	-
TOTAL	193	-	2	-

2. CASES in which defects were found

Particulars	Number of cases in which defects were found			
	Found	Remedied	Referred to H.M. Inspector	Referred by H.M. Inspector
Sanitary Conveniences (S.7)				
(a) Insufficient	-	-	-	-
(b) Unsuitable or defective	2	2	-	1
(c) Not separate for sexes	-	-	-	-
TOTAL	2	2	-	1

3. OUTWORKERS. Lists required by Section 110 were received relating to 58 outworkers all engaged in making wearing apparel.

Offices, Shops and Railway Premises Act, 1963

The above mentioned Act which came into force during 1964 contained provisions relating to the health, safety and welfare of employees in offices, shops and certain other premises. The following tables, have been abstracted from the annual report submitted to the Ministry of Labour.

Registration and General Inspections

Class of premises	Number of premises registered during the year	Total number of Registered premises at end of year	Number of registered premises receiving a general inspection during the year
Offices	6	134	13
Retail shops	13	388	50
Wholesale shops, warehouses	1	21	2
Catering establishments open to the public, canteens	2	59	9
Fuel storage depots	-	2	-
TOTALS	22	604	74

NUMBER OF VISITS OF ALL KINDS BY INSPECTORS TO REGISTERED PREMISES - 210

Analysis of persons employed in Registered Premises

Class of workplace	Number of persons employed
Offices	952
Retail shops	2,026
Wholesale departments, warehouses	272
Catering establishments open to the public	482
Canteens	20
Fuel storage depots	18
Total	3,770
Total Males	1,361
Total Females	2,409

Exemptions and Prosecutions

No exemptions were applied for during the year, nor prosecution instituted.

Contraventions found

Premises requiring cleansing in some form	...	...	...	...	5
Provision of heating and/or thermometer	...	...	...	...	22
Inadequate ventilation	...	...	...	...	6
Defective or inadequate sanitary accommodation	...	...	...	...	7
Defective or inadequate washing facilities	...	...	...	...	11
Inadequate drinking water facilities	...	...	...	...	2
Absence of adequate facilities for storage of outdoor clothing...	...	...	...	...	2
Lack of adequate eating facilities in shops	...	...	...	...	-
Defective floors, passages or staircases	...	...	...	...	3
Lack of First Aid equipment	...	...	...	...	24
Overcrowding	...	...	...	...	-
Inadequate lighting	...	...	...	...	3
Sitting facilities	...	...	...	...	1
Fencing exposed parts of machinery	...	...	...	...	-
No abstract posted	...	...	...	...	36
Dampness	...	...	...	...	1
Provision of dustbin...	...	...	...	...	1

Accidents

9 accidents were reported during the year, details of which are given in the following tables.

Reported Accidents

Workplace	Number Reported	Total number investigated	Action Recommended			No Action
			Prosecution	Formal Warning	Informal Advice	
Offices	-	-	-	-	-	-
Retail shops	4	4	-	-	-	4
Wholesale shops, warehouses	2	2	-	-	-	2
Catering establishments open to public, canteens	3	3	-	-	-	3
Fuel storage depots	-	-	-	-	-	-
TOTALS	9	9	-	-	-	9

Analysis of Reported Accidents

	Offices	Retail shops	Wholesale Warehouses	Catering Establishments	Fuel Storage Depots
Machinery	-	-	-	-	-
Transport	-	-	-	-	-
Hand tools	-	1	-	-	-
Falls of persons	-	1	-	-	-
Stepping on or striking against object or person	-	-	-	-	-
Handling goods	-	3	-	-	-
Struck by falling object	-	-	-	-	-
Not otherwise specified	-	1	2	1	-
TOTALS	-	6	2	1	-

RODENT CONTROL

The Corporation employ two full-time rodent operators and the extermination methods employed are poisoning, gassing and trapping. The following table summarises the work carried out:-

	Type of Property			Total
	Local Auth.	Dwell. Hses.	Bus. Prem.	
<u>NUMBER OF PROPERTIES INSPECTED:</u>				
(1) Primary Inspections:				
(a) as a result of notification	20	305	48	373
(b) otherwise	-	256	-	256
(2) Re-inspections:				
(a) as a result of notification	6	29	10	45
(b) otherwise	-	20	-	20
Total Properties inspected	26	610	58	694
<u>Number of Properties found to be infested by RATS:</u>				
(1) Primary inspections:				
(a) Major	-	-	-	-
(b) Minor	12	437	22	471
(2) Re-infestations:				
(a) Major	-	-	-	-
(b) Minor	6	34	4	44
<u>Number of Properties found to be infested by MICE:</u>				
(1) Primary Inspections	5	93	23	121
(2) Re-inspections	1	11	7	19
Total infestations found	24	575	56	655
<u>Number of infested Properties treated by Local Authority:</u>				
(1) Primary Treatments:				
(a) for RATS	9	403	23	435
(b) for MICE	4	95	23	122
(2) Treatments for re-infestation				
(a) for RATS	4	18	3	25
(b) for MICE	-	7	7	14
TOTAL Treatments	17	523	56	596

NOTE: A treatment means a complete treatment for the destruction of rats and mice and includes not only the initial treatment, but when necessary, post-baiting and follow-up treatment.

RODENT CONTROL, Cont.

Following the treatments carried out, 895 rats and 430 mice were picked up, whilst the estimated kill was 2,632 rats and 1,019 mice.

During the year the rodent operators paid 6,168 visits in connection with the inspection and treatment of premises.

Two maintenance treatments of the sewers were also carried out. 408 manholes were baited and 285 takes of poison bait were recorded, showing an estimated kill of 1,500 rats.

PET ANIMALS ACT 1951

There are seven premises in the Borough licensed for the sale of pet animals. All these premises comply with the recommended conditions of the Royal Society for the Prevention of Cruelty to Animals, which were adopted by the Council.

INSPECTION AND SUPERVISION OF FOOD

FOOD HYGIENE

Food hygiene has continued to receive the attention of the public health inspectorate and 755 visits have been made for this purpose.

All plans of food premises submitted to the Borough Engineer are scrutinised for compliance with the various Acts and Regulations and where amendments are necessary the owner or architect is advised and corrections made before submission to the appropriate Committees. This system has worked very well indeed and architects and others have co-operated fully with the Department.

The following is a list of the various types of food premises in the Borough.

Number and type of food premises

Premises requiring registration

For the manufacture of ice cream	...	...	...	3
For the storage and sale of ice cream	...	...	...	245
For the preparation and manufacture of sausages or pressed, potted or preserved meat, etc.	...	...	...	20

FOOD HYGIENE REGULATIONS 1960

Type of premises	Number	Premises complying with Regulation 16	Premises complying with Regulation 19
Fried fish shops	38	37	38
Wet fish shops	3	3	3
Bakehouses	9	9	9
Butchers	45	44	45
Restaurants and cafes	28	28	28
School canteens	9	9	9
Factory canteens	20	20	20
Licensed premises	113	113	113
Grocery and provisions	122	117	121
Cakes and confectionery	16	16	16
Sweets	28	28	28
Green grocery	29	29	29
TOTALS	460	453	459

FOOD INSPECTION

There are no slaughterhouses in the Borough.

The following table shows the foods condemned during the year on account of decomposition, etc.

TINNED FOODS

						lbs	
Meats	...	...	...	...	...	742	
Fruit	...	...	...	...	...	456	
Vegetables	...	...	...	...	...	208	
Miscellaneous	...	...	...	...	...	229	1635 lbs

OTHER FOODS

Meat	...	...	...	...	...	1317	
Fish	...	...	...	...	...	130	
Fruit	...	...	...	...	...	406	
Vegetables	...	...	...	...	...	15202	
Cheese	...	...	...	...	...	5937	
Miscellaneous	...	...	...	...	...	247	23239 lbs

TOTAL	24874 lbs
-------	-----------

POULTRY INSPECTION

There is one poultry processing establishment within the Borough.

The number of birds processed during the year was as follows:

Broilers...	...	...	...	...	75,087
Capons etc	...	...	...	...	7,616
Hens	...	...	...	...	110,428
Turkeys	...	...	...	...	2,348
Ducks	...	...	...	...	861
Geese	...	...	...	...	83

Regular inspections are made of the premises to maintain a general oversight of production conditions and the methods of inspection of suspect poultry.

ICE CREAM

Ice cream was manufactured at three premises in the Borough in 1968 while 254 premises were registered for the storage and sale of ice cream. A complete cold mix is used at two of the manufacturing premises in the Borough and pasteurisation at the other.

37 samples of ice cream were submitted for bacteriological examination and the results of the examinations are shown below.

Ice Cream	Methylene Blue Test Grading				TOTAL
	Grade 1	Grade 2	Grade 3	Grade 4	
Samples taken at manufacturing premises	15	2	3	4	24
Samples taken from retailers in the Borough	7	6	-	-	13
TOTALS	22	8	3	4	37

SLAUGHTER OF ANIMALS ACT 1958

The number of slaughtermen's licences issued in 1968 was 9.

KNACKER'S YARD

There is one Knacker's Yard in the Borough. These premises are not licensed for the slaughter of horses.

MILK

Designated Milk

Dealer's pre-packed licences 125

Pasteurised Milk

Establishments at which milk is pasteurised Nil

MILK SAMPLING

During the year, 166 samples of designated milks were taken for bacteriological examination and the following table provides details of the results.

No. of Samples	Description of Milk	Methylene Blue Test		Phosphatase Test		Turbidity Test	
		Passed	Failed	Passed	Failed	Passed	Failed
3	Untreated	3	-	-	-	-	-
127	Pasteurised	124	3	127	-	-	-
36	Sterilised	-	-	-	-	36	-
166	Totals	127	3	127	-	36	-

Brucella Abortus

1 sample of untreated milk was submitted to the Ring Test and proved negative.

FOOD SAMPLES TAKEN FOR BACTERIOLOGICAL EXAMINATION

58 samples were taken during the year as follows:

49 of hot coffee, chocolate, tea or soup from vending machines - 11 of which were unsatisfactory due to the presence of faecal coli

9 of general foodstuffs, all of which were satisfactory.

FOOD AND DRUGS ACT 1955

During the year 12 formal and 168 informal samples were submitted to the Public Analyst for analysis.

Nature of Samples	No. of Samples		Number of samples adulterated or not genuine
	Informal	Formal	
Milk	14	-	3
Meat and Meat Products	49	2	8
Fish and Fish Products	7	-	-
General Groceries	65	-	7
Preserves	6	-	1
Flour Confectionery	7	-	10
Sugar Confectionery	1	-	-
Ice Cream	4	-	1
Cordials	8	-	-
Vegetables	4	-	-
Medicines etc	11	-	-
Beer and spirits	4	10	-
	180	12	30
	192		

In addition to the above samples which were submitted to the Public Analyst 16 additional samples were brought to the office.

As part of the National Survey for the detection of pesticidal residues in food, 3 samples were also submitted to the Public Analyst all proving negative.

FOOD AND DRUGS ACT 1955

The table below shows details of the samples found not to be genuine or otherwise unsatisfactory and of the relative action taken.

Sample Number	Article	Adulteration or other irregularity	Action Taken
3364	Rice milk pudding	Deficient in rice	Manufacturer cautioned
3382	Mixed pickles	Contained broken glass	Manufacturer fined £20
3383	Tin of stewed steak	Contained a piece of hide	Manufacturer cautioned
3390	Yoghurt	Mouldy	Vendor fined £10
3391	Lamb fillets	Contained beetle larva	Vendor fined £10
3392	Crisps	Contained cockroach	Manufacturer fined £10
3393	Tin of peas	Contained a caterpillar	Manufacturer cautioned
3410	Bread	Contained area of iron oxide and grease	Manufacturer cautioned
3430	Tin of sliced peaches	Contained a button	Manufacturer cautioned
3446	Tripe	Not properly washed after bleaching	Manufacturer cautioned
3449	Ice cream	Slightly deficient in fat	Manufacturer cautioned
3451	Tin of carrots	Contained insect larva and a bead	Manufacturer cautioned
3472	Cake	Contained a spider beetle	Manufacturer cautioned
3476	Steak and kidney pie	Deficient in kidney	Manufacturer cautioned
3485	Swiss roll	Mouldy	Manufacturer cautioned
3486	Bilberry tart	Mouldy	Vendor fined £5
3487	Vanilla slices	Mouldy	Vendor fined £5
3489	Sausage rolls	Mouldy	Prosecution - case dismissed
3490	Potato crisps	Contained earwig	Manufacturer fined £5
3509	Butter	Contained piece of concrete	Manufacturer cautioned

Sample Number	Article	Adulteration or other irregularity	Action Taken
3510	Madeira cake	Mouldy	Vendor fined £5
3522	Meat and potato pie	Deficient in meat content	Formal sample to be taken (see 3525)
3523	Bread	Contained moth	Manufacturer cautioned
3524	Jam doughnut	Contained fibre	Manufacturer cautioned
3525	Meat and potato pie	Deficient in meat content	Vendor fined £5
3546	Crumpets	Mouldy	Vendor cautioned
3547	Cornflakes	Contained yeast tablet	Manufacturer cautioned
3548	Steak and kidney pie	Contained rubber button	Manufacturer cautioned
3564	Milk	Dirty bottle	Vendor cautioned
3565	Milk (5 bottles)	Contained building mortar	Vendor fined £5 on each charge

ATMOSPHERIC POLLUTION

The implementation of the provisions of the Clean Air Act, 1956 once again occupied a proportion of the time of the public health inspectorate and 2,068 inspections were made under the Act.

2 notifications were received of 'intention to install' furnaces under Section 3 of the Act.

The Borough of Crewe No. 1 (Marshfield Bank and Wistaston Green) Smoke Control Order, 1960 covering some 270 acres on the westerly side of the borough, and affecting some 1,085 properties came into operation on the 1st October, 1962.

A second order, known as the Borough of Crewe No. 2 (Wistaston Green and The Valley) Smoke Control Order, 1964, which covers 208 acres and 1,028 properties in an area adjacent to and to the east of the first area, became operative on the 1st July, 1966.

The Borough of Crewe No. 3 (Ruskin Park) Smoke Control Order, 1966 became operative on the 1st July, 1967. This Order covers 224 acres and 1,670 properties in an area adjacent to and to the south east of No. 2 area.

On the 1st March, 1967 the Council made the Borough of Crewe No. 4 (Nantwich Road South) Smoke Control Order, 1967. This order covered 235 acres and 1,793 properties. A Public Inquiry was held in respect of this Order on the 24th August, 1967 and it was confirmed in 1968, to become operative on the 1st July, 1969.

The department has, since 1949, in co-operation with the Ministry of Technology, made regular monthly recordings of the degree of air pollution throughout the borough. The analyses of the readings of the various stations are shown in the appended tables and graphs.

In 1961, Crewe was selected as one of 120 towns to take part in a National Survey of Atmospheric Pollution and five additional sets of instruments were installed at particular sites in the district, but one site at the College Annexe, Railton Avenue, has now been discontinued.

The sites selected cover four types of district in accordance with the recommendations of the Ministry of Technology as follows:

Crewe Site

- | | |
|---|---|
| (a) Residential area with a high population density | Stalbridge Road Clinic |
| (b) Industrial area | Railway Works |
| (c) Commercial area | Rear of Municipal Buildings |
| (d) Smoke control area | Sewage Works transferred to Queens Park Nursery, November, 1968 |

The results obtained are collated by the Warren Spring Laboratory of the Ministry of Technology.

VOLUMETRIC CONCENTRATION OF SMOKE
IN THE ATMOSPHERE - YEAR 1968

Average daily concentration expressed as microgrammes
per cubic metre

	A Residential Area, high population density			B Industrial Area			C Commercial Area			D Smoke Control Area		
	1966	1967	1968	1966	1967	1968	1966	1967	1968	1966	1967	1968
Jan.	295	265	233	296	*	112	290	228	175	164	151	65
Feb.	220	189	310	135	71	209	154	123	254	91	*	107
March	179	125	168	100	*	89	130	*	126	37	21	40
April	*	*	116	*	92	*	*	106	85	*	37	7
May	90	*	128	64	57	94	69	78	108	19	27	31
June	60	48	54	47	42	51	55	*	41	21	14	19
July	63	32	61	*	21	*	55	*	53	18	9	18
Aug.	71	62	61	*	*	58	69	53	51	29	19	21
Sept.	145	115	83	*	67	*	133	85	42	85	30	31
Oct.	240	110	115	126	41	66	190	73	89	107	16	33
Nov.	248	317	212	*	168	*	183	225	167	117	104	72
Dec.	197	319	*	*	171	*	*	*	*	*	94	*

* No results obtained

VOLUMETRIC CONCENTRATION OF SULPHUR
DIOXIDE IN THE ATMOSPHERE - YEAR 1968

Average daily concentration expressed as microgrammes per cubic metre

	A Residential Area, high population density			B Industrial Area			C Commercial Area			D Smoke Control Area		
	1966	1967	1968	1966	1967	1968	1966	1967	1968	1966	1967	1968
Jan.	186	145	113	302	*	119	321	282	115	217	166	69
Feb.	114	109	153	235	151	118	176	154	144	127	*	89
March	101	110	94	229	*	90	167	*	99	76	39	49
April	*	*	57	*	133	*	*	150	66	*	85	18
May	60	*	56	186	86	89	81	81	54	42	51	35
June	75	73	42	135	116	65	74	*	38	*	47	26
July	65	50	47	*	81	*	62	*	47	35	37	27
Aug.	65	40	40	*	*	60	68	44	44	36	26	35
Sept.	75	57	52	*	103	*	103	60	42	56	34	28
Oct.	91	46	53	131	84	75	163	55	41	100	22	28
Nov.	150	141	83	*	195	*	209	142	52	132	83	44
Dec.	93	140	*	*	133	*	*	*	*	*	66	*

*No results obtained

ATMOSPHERIC POLLUTION - DEPOSITED MATTER 1968
Monthly Deposits in Tons per Square Mile.

	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			QUEENS PARK NURSERY			ELM DRIVE			CREWE GATES FARM		
	1966	1967	1968	1966	1967	1968	1966	1967	1968	1966	1967	1968	1966	1967	1968
January	18.33	12.74	9.57	17.99	13.30	9.57	8.61	7.60	5.22	11.37	*	11.41	6.40	6.91	*
February	12.56	13.05	9.90	16.41	10.77	10.50	8.58	8.79	6.60	12.26	15.29	14.70	9.38	9.09	*
March	14.33	17.81	11.48	16.78	14.15	13.16	7.90	7.85	7.56	13.62	14.53	10.92	11.72	11.75	*
April	10.57	11.58	9.60	11.21	14.06	8.96	14.59	10.20	8.00	13.66	24.14	9.92	*	8.24	10.24
May	12.35	19.19	15.17	13.82	17.55	16.28	6.14	*	9.25	17.91	19.64	15.91	10.91	15.45	11.10
June	10.12	11.70	15.34	11.95	14.10	15.08	11.03	8.70	13.52	9.62	15.00	14.56	7.69	*	16.38
July	13.19	11.20	16.24	12.17	10.85	11.31	7.75	8.00	8.70	10.84	18.56	12.18	9.39	11.84	17.98
August	10.82	7.20	8.10	10.27	6.90	9.00	6.29	22.70	11.10	7.66	8.70	7.80	8.30	4.50	8.70
September	9.27	11.76	9.47	10.74	10.08	14.94	6.93	11.48	10.32	7.71	5.60	7.62	5.26	7.84	9.63
October	12.02	10.56	8.24	12.35	9.92	9.63	6.75	11.52	7.24	8.47	9.28	7.62	11.34	12.48	6.78
November	16.62	10.80	10.70	15.23	10.80	10.78	20.28	8.70	9.86	13.87	15.60	9.93	*	*	8.55
December	*	9.92	10.16	8.87	10.85	14.17	20.41	8.37	9.39	20.90	16.12	12.01	15.47	*	14.25
TOTAL	140.18	147.51	133.97	157.79	143.33	133.38	125.26	113.91	106.76	147.89	162.46	134.58	95.36	88.10	103.61
MONTHLY AVERAGE	12.74	12.29	11.16	13.15	11.94	11.12	10.44	10.36	8.90	12.32	14.77	11.22	9.59	9.79	11.51

* No result obtained owing to damage to equipment.

ATMOSPHERIC POLLUTION - YEAR 1968

Sulphur Dioxide by the Lead Peroxide Method
Results expressed as mg./SO₂/day/100 sq.c.m. of Batch
"A" Lead Peroxide exposed under a louvered cover

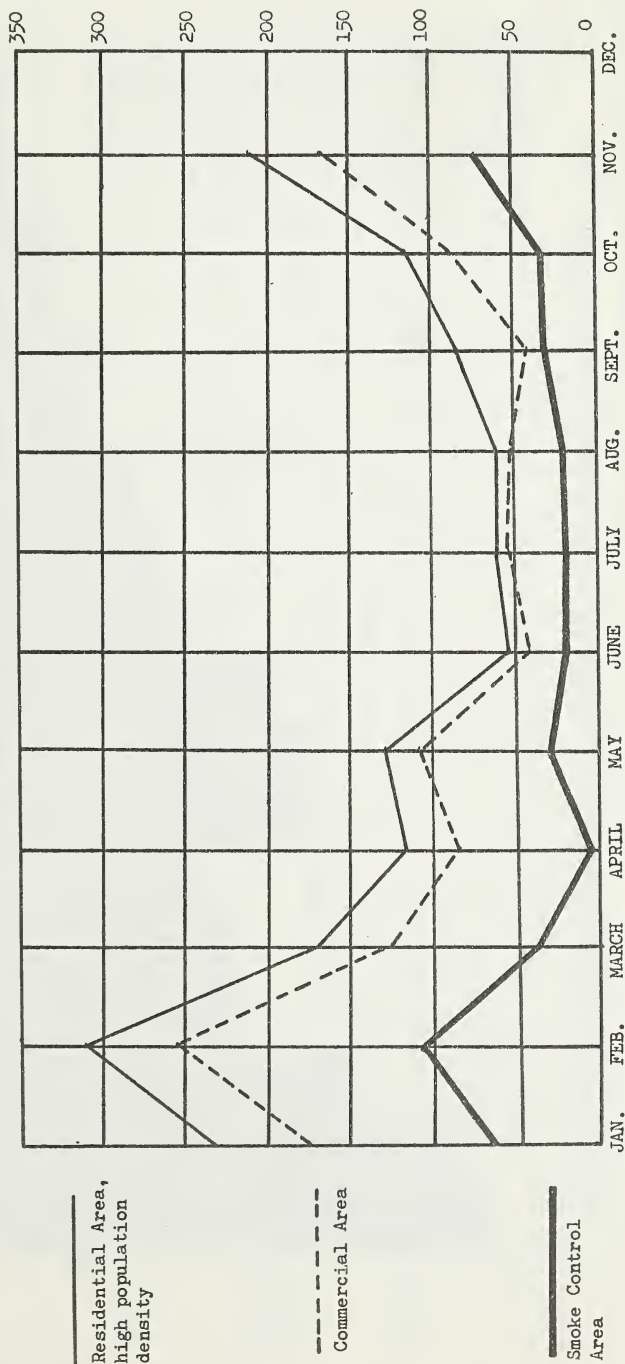
	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			QUEENS PARK NURSERY			ELM DRIVE			CREWE GATES FARM		
	1966	1967	1968	1966	1967	1968	1966	1967	1968	1966	1967	1968	1966	1967	1968
January	*	1.38	1.57	*	1.50	2.45	*	0.49	0.71	*	0.60	1.87	*	1.10	*
February	1.74	2.06	1.79	1.97	2.06	2.00	1.24	0.75	0.87	1.02	1.21	1.35	1.13	1.46	*
March	1.44	0.73	1.68	2.21	1.58	2.31	0.50	0.03	*	1.24	0.91	0.84	1.60	1.10	*
April	1.97	1.51	1.81	1.46	1.83	1.49	0.75	0.72	1.85	0.71	0.94	1.30	0.92	0.95	2.21
May	0.79	1.33	0.10	1.19	1.66	0.20	0.89	0.51	0.15	0.95	0.73	0.20	0.88	0.67	0.20
June	0.87	0.80	0.56	0.80	0.77	0.57	0.38	0.33	1.06	0.45	0.22	0.32	0.62	0.26	0.61
July	0.64	0.51	0.76	0.77	0.45	0.98	0.39	0.14	0.39	0.22	0.23	0.43	0.49	0.30	0.55
August	0.82	0.45	0.72	0.73	1.45	0.61	0.63	0.40	0.32	0.56	0.78	0.38	0.49	0.53	0.45
September	1.09	0.94	0.60	0.75	0.93	0.80	0.08	0.42	0.45	0.21	0.37	0.35	0.41	0.50	0.70
October	0.83	0.44	1.10	0.74	0.45	1.10	0.47	*	*	0.70	0.48	0.60	0.72	0.48	0.60
November	1.64	2.28	1.40	2.16	2.61	2.80	0.31	1.14	0.70	0.94	1.69	1.30	1.12	*	0.70
December	1.72	1.10	2.10	2.22	1.40	1.80	0.37	0.54	1.50	1.00	1.11	1.10	1.19	*	1.50
TOTAL	13.55	13.53	14.19	15.00	16.69	17.11	6.09	5.47	8.00	8.00	9.27	10.04	9.57	7.35	7.52
MONTHLY AVERAGE	1.23	1.13	1.18	1.36	1.39	1.43	0.55	0.50	0.80	0.73	0.77	0.84	0.87	0.74	0.84

* No results obtained.

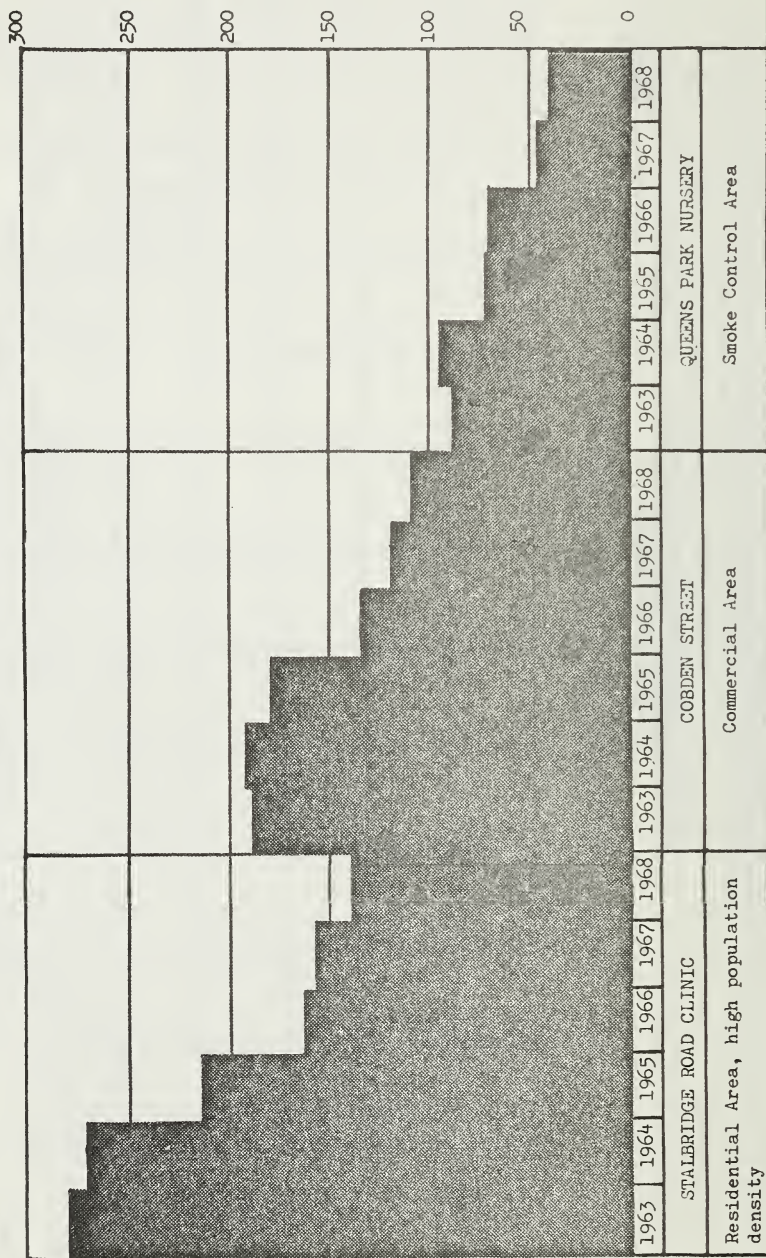
VOLUMETRIC CONCENTRATION OF SMOKE IN THE
ATMOSPHERE - YEAR 1968

GRAPH I

Average daily concentration expressed as
microgrammes per cubic metre

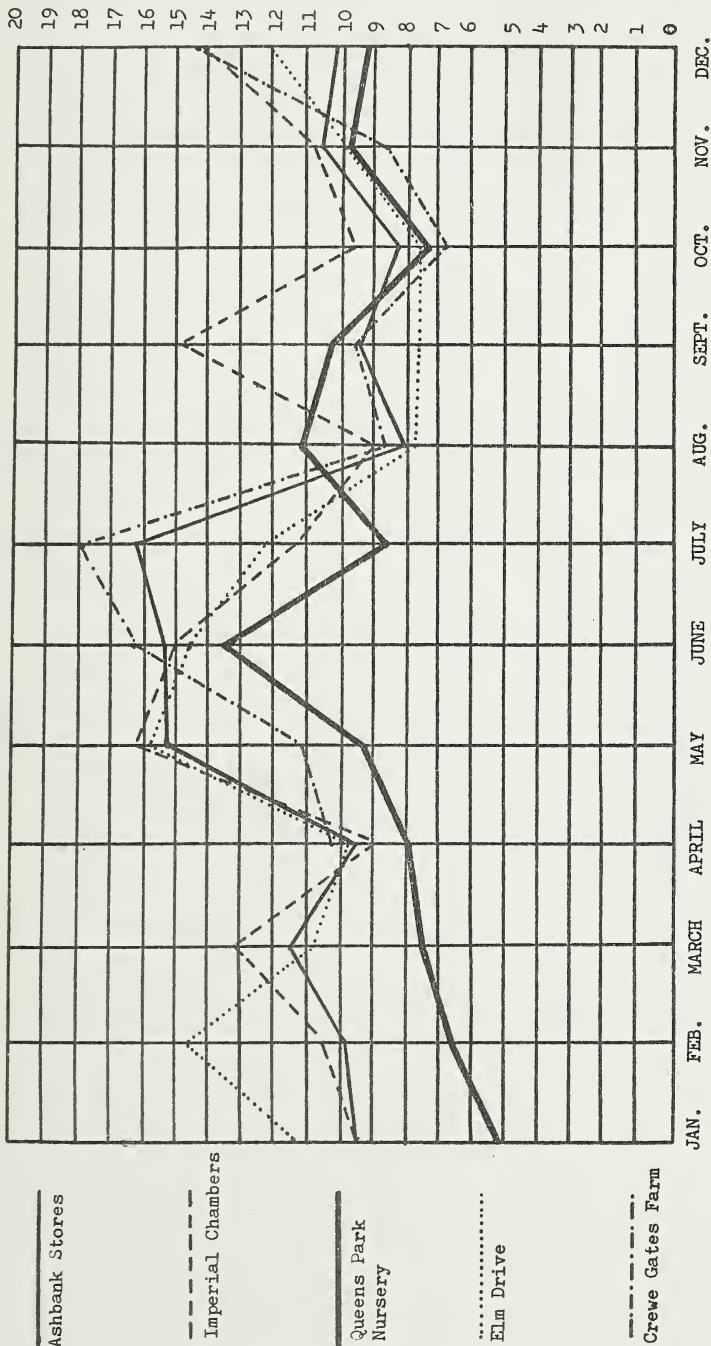


VOLUMETRIC CONCENTRATION OF SMOKE IN THE ATMOSPHERE (Monthly Averages in microgrammes/metre³)
GRAPH II



GRAPH III

DEPOSITED MATTER - 1968
Monthly Deposits in Tons per square mile



GRAPH IV

ATMOSPHERIC POLLUTION - SULPHUR DIOXIDE DEPOSITS 1968

Results expressed as $\text{Mg}\cdot\text{SO}_4/\text{Day}/100\text{ sq.cm. of Batch}$

"A" Lead Peroxide exposed under a louvered cover

Milligrams